



MISSOURI DEPARTMENT OF NATURAL RESOURCES
P.O. Box 1368 2010 Missouri Blvd. Jefferson City, Missouri 65102 (314) 751-3241

MEMORANDUM

0714
Site: West Lake LE
ID: MBD07990932
Break: 1.1
Other: CUA
6-18-79

JUN 19 1979

Date: June 18, 1979
To: Robert Robinson, Director, Solid Waste Management Program
From: Keith Schardein, Laboratory Services Program
Subject: St. Louis Area Landfill Sampling - June 12-14, 1979

The following information was gained during our recent sampling trip to the St. Louis area.

Westlake Sanitary Landfill

Westlake has nine (9) monitoring wells. Seven (7) are along the southwest border of the property and two (2) are near the center of the property in the vicinity of the asphalt plant. Bill Canney indicated that he would complete the plat map showing well locations and send it to you.

Water depths in the collection wells were as follows:
small collection well near southwest border = 2.1 feet
large collection well (center of property) = 7.8 feet
collection well in pit = 39.4 feet

According to personnel, the small well is not being pumped, the large well is being pumped at unstated frequencies, and the pit well is pumped daily.

R & E Landfill

The sand filter was in poor repair. Water was pooling on its surface and flowing over and through the concrete block walls. The west wall was cracked and beginning to separate at the corners. Our sample was collected by siphoning the pooled liquid into a container as it flowed over the wall. As far as we could tell most, if not all, of the discharge was from the surface of the filter.

There has apparently been a septic tank buried at the toe of the northernmost fill on the site. There is a subsurface valve installed ahead of the tank. The only evidence of the tank is a clean-out pipe. There was no discharge pipe found and the drainageway was dry. No sample was collected.

According to the landowner, the landfill company has been working that week installing the septic tank and repairing eroded gulleys.

KS/mh

Copy has been forwarded to W.D. 20.

DNR 0138

Joseph P. Teasdale Governor
Fred A. Lafser Director

Division of Environmental Quality
James P. Odendahl Director

40241317



SUPERFUND RECORDS

March 13, 1979

MAR 15 1979

Enclosed are results of analysis on seven (7) monitoring wells
at West Lake Landfill.

Bill Canney



DNR 0139



engineer.
12191 Lackland Road
St. Louis, Missouri 63141
(314) 434-6980

REPORT OF ANALYSIS

MAR 5 1979

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Environment • Energy • Transportation • Food Processing

SUBMITTED BY: Mr. William Canney
West Lake Quarry
Rt. #1, Box 206
Bridgeton, MO 63012

DATE: 2/19/79
PROJECT NO. 1536-019
P.O.

DATE RECEIVED: January 12, 1979.

SAMPLE ANALYZED: Seven water samples

METHODS USED: Standard Methods, 14th Edition

RESULTS:

Parameter	<u>Samples</u>						
	<u>35</u>	<u>36</u>	<u>37</u>	<u>38</u>	<u>39</u>	<u>40</u>	<u>41</u>
Alkalinity	160	150	140	210	140	220	310
pH	7.2	7.4	6.5	7.7	7.8	7.7	7.6
COD	220	130	170	180	100	160	400
BOD	52	20	7	18	11	15	88
TOC	74	43	45	57	33	51	120
Dissolved Solids	372	550	550	530	510	610	860
Conductivity	1,940	1,700	1,650	1,550	1,650	1,360	1,080
Hardness (EDTA)	250	320	370	350	320	390	540
Phosphate, total	0.49	0.15	0.58	0.21	0.04	0.04	0.12
Chloride	94	100	110	76	76	94	140
Fluoride*	0.72	0.80	0.78	0.87	0.73	0.84	0.82
Ammonia	<1	<1	<1	<1	<1	<1	<1
Nitrate	1.1	0.15	0.10	0.18	0.09	1.3	3.2
Sulfate	48	110	160	140	160	160	190
Sulfide	1.4	0.4	4.8	0.4	0.1	0.6	<0.1
Cyanide	Analysis to be run on new samples.						

Values are reported as mg/l, except conductivity which is micromhos/cm.

*Run on new samples taken 2/13/79.

DNR 0140

ENVIRODYNE ENGINEERS

BY: *Judy Stone*



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REPORT OF ANALYSIS

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Environment • Energy • Transportation • Food Processing

SUBMITTED BY: Mr. William Canney
West Lake Quarry
Rt. #1, Box 206
Bridgeton, MO 63012

DATE: 2/19/79
PROJECT NO. 1536-019
P.O.

DATE RECEIVED: January 12, 1979

SAMPLE ANALYZED: Seven water samples

METHODS USED: Standard Methods, 14th Edition

RESULTS:

Parameter	✓ 35	✓ 36	✓ 37	Samples 38	39	40	41
Arsenic	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Calcium	46	72	67	83	61	97	210
Chromium	<0.01	<0.01	0.01	0.02	<0.01	0.03	0.03
Copper	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Iron	3.5	2.4	7.4	2.2	2.6	3.9	18
Potassium	6.2	7.1	4.8	9.9	8.4	12	12
Lead	0.041	0.015	0.015	0.006	0.005	0.013	0.059
Magnesium	29	31	19	41	39	45	60
Manganese	0.31	1.4	0.93	0.55	0.26	0.69	0.75
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	<0.01	<0.01	<0.01	0.02	0.03	0.10	0.12
Silver	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sodium	110	38	25	44	44	48	65
Zinc	5.5	2.7	15	4.0	3.7	17	2.8

Values are reported as mg/l.

DNR 0141

ENVIRODYNE ENGINEERS

BY: *Judy Stone*



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REPORT OF ANALYSIS

Environment • Energy • Transportation • Food Processing

SUBMITTED BY: Mr. William Canney
West Lake Quarry
Rt. #1, Box 206
Bridgeton, Missouri 63012

DATE: 2/27/79
PROJECT NO. 1536-019
P.O.

DATE RECEIVED: February 13, 1979

SAMPLE ANALYZED: Seven water samples

METHODS USED: Standard Methods, 14th Edition

RESULTS:

<u>Sample</u>	<u>Cyanide, mg/l</u>
35	<0.02
36	<0.02
37A	<0.02
38	<0.02
39	<0.02
40	<0.02
41	<0.02

These samples were taken to replace samples
from 1/12/79.

DNR 0142

enviRODYNE ENGINEERS

BY: *Judy Stone*